

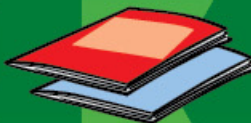
MORELAND KIDS RECYCLING BOOK



Full of facts and games for
primary school students



How to recycle
right at home.



What can we do
to recycle more?



Where does your
recycling go?

Tips on reducing
your waste.



Moreland City Council

VISY
FOR A BETTER WORLD

VISIT...

LANZAROTE
Caliente.COM

CONTENTS

1. Let's get recycling!
2. Why is recycling important?
3. Recycling in Moreland
4. What goes in your recycle bin?
 4. Paper and cardboard
 6. Plastics
 8. Glass
 10. Aluminium
 11. Steel
12. What does not go in the recycle bin?
13. Tips on reducing your waste
14. What happens to your recycling after you put the recycle bin out?
16. Recycling activities

QUICK QUIZ



Using a pencil, **draw a line to match** some of the words used in this book to their meaning

Landfill	Items that are made into new products
Rubbish	Items of rubbish left in an open or public place
Recyclable materials	Gets buried in landfill
Kerbside collection	Bins at the front of your house
Resource recovery	Saves useful resources from going to landfill
Contamination	Can be placed into a compost bin
Food waste	Items that do not belong in a bin
Litter	Where rubbish is buried

For an online copy of this guide please go to moreland.vic.gov.au

For more information on recycling you can visit visy.com.au/recycling/education

Phone 9240 1111

moreland.vic.gov.au



/morelandcitycouncil



@morelandcouncil



/morelandcouncil

This document may be reproduced in whole or part for the purpose of study or training subject to: the inclusion of an acknowledgement of the source; it not being used for commercial purpose or sale; and the material being accurate and not used in a misleading context. Reproduction for purposes other than those given above requires the prior written permission of Moreland City Council.

Moreland Recycling Book 2019

LET'S GET RECYCLING!

Recycling
uses what we
already have
over and over
again!



Recycling is a great way for us to do something good for the environment.

We come in contact with recyclables each and every day so it's important to know how to get recycling right. We can recycle at school, home and at work and if we can teach others how to get it right, we can have a really positive impact on the environment.

RECYCLING AT HOME

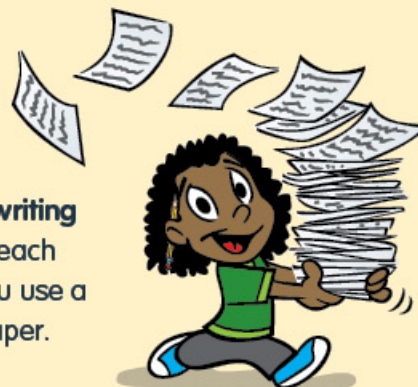
Keep a **recycling checklist** in the house which tells you which items belong in the recycle bin.



Remember to collect your recyclables in a bin **without** using a plastic bag.

RECYCLING AT SCHOOL

Save paper by **writing on the back** of each sheet before you use a new piece of paper.



Always put used paper in your classroom paper bins so they can be **recycled**.

In this book we use these **icons** and **colours** to represent each recycling type.
Using a pencil, draw a line to match them to their recycling name.



Cardboard

Steel

Plastics

Aluminium

Glass



TIP

Choosing items at the supermarket that are packaged using recyclable materials means you're an expert recycler!

WHY IS RECYCLING IMPORTANT?

The choices we make today will have a big impact on the world we live in so it's up to us to recycle right and reduce the amount of waste we create.

Recycling helps protect our environment by creating new products without having to remove natural resources from the earth. By recycling more we are able to reduce the amount of waste we send to landfill. Landfills create toxic gases called methane which damages our ozone layer. The less waste we send to landfill reduces the amount of methane a landfill produces.

DID YOU KNOW?

About 20 million tonnes of rubbish is sent to Australian landfills each year*

RECYCLING REDUCES THE NEED FOR LANDFILLS

The less waste sent to landfill reduces the amount of methane produced in the landfill.



What you put in your rubbish bin will be sent to landfill and be buried underground.

RECYCLING PROTECTS OUR ENVIRONMENT

If we do not recycle enough at home and at school, these are the natural resources we must take from the earth to make new products:



Paper and cardboard is made from trees



Plastics are made from crude oil



Aluminium is made from bauxite



Steel is made from iron ore



Glass is made from sand, limestone and soda ash

Apart from trees, all these **raw materials** come from 'non-renewable' resources.

RECYCLING IN MORELAND

Recycling
right is easy,
once you
know how!



It's easy to recycle right in Moreland as all households are provided with a recycle bin.

Moreland residents are doing a great job at recycling and you can get involved too.



RECYCLE BIN



FOOD AND GARDEN ORGANICS BIN



GARBAGE BIN



Visy's Material
Recovery Facility (MRF)



**YOUR RECYCLABLES
ARE MADE INTO
NEW PRODUCTS**



Food and garden
waste processor



**MADE INTO
MULCH OR
COMPOST**



Landfill



**YOUR RUBBISH
IS BURIED
UNDERGROUND**

Write the name of each type of recyclable that belongs in your recycle bin



News _____



_____ can



_____ box



_____ can



_____ bottle



_____ bottle

What goes in your recycle bin?



PAPER AND CARDBOARD



Paper and Cardboard are such a big part of our households. You can recycle cardboard and paper found in the kitchen, bathroom and laundry.

All these paper and cardboard products **belong in your recycle bin**



Newspapers, junkmail
and magazines



Food boxes



Flattened packing
boxes



Pizza boxes



Tissue boxes



Egg cartons



Envelopes
(even with windows)

QUIZ

If one household
recycles 1kg of paper
and cardboard per
week, how many
kilograms would they
recycle every year?



DID YOU KNOW?

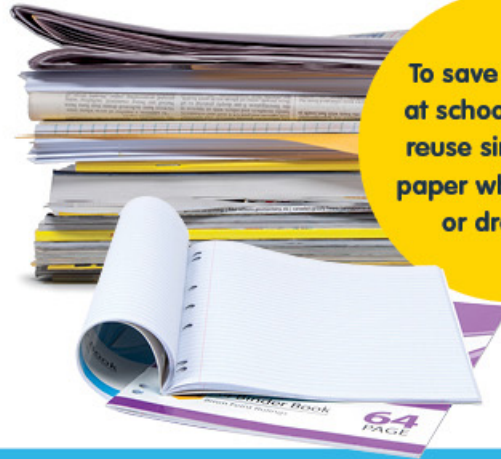


You don't need to remove sticky tape from boxes when you put out for recycling as it comes off when the cardboard is washed.



Wire bound books are also recyclable.

DO YOU REUSE PAPER IN YOUR CLASSROOM?



To save resources at school, why not reuse single sided paper when writing or drawing?

EVEN PAPER TAKEAWAY BAGS ARE RECYCLABLE!



These paper and cardboard products **do not** belong in your recycle bin



Paper towel



Waxed cardboard boxes



Tissues and napkins



Receipts



Takeaway cups



DID YOU KNOW?

You can put paper towel in your compost bin.



What goes in your recycle bin?



PLASTICS

Hard plastic bottles and containers



Plastics are such a big part of our households. You can recycle plastic bottles and containers found in the kitchen, bathroom and laundry.

All these plastic products **belong** in your recycle bin



Drink bottles



Milk bottles



Bathroom containers



Ice cream containers



Sauce squeeze bottles



Laundry liquid containers



Yoghurt containers



Takeaway containers



HANDY HINT

Bottles and containers should not be flattened for recycling.

DID YOU KNOW?



You can keep lids on plastic bottles as it's the best way for them to be recycled.

Labels can be left on too.

Even 'hand pump' products can be recycled!



PLASTIC BOTTLES CAN BE MADE INTO NEW BOTTLES. HERE'S HOW:



PETE



HDPE



V



LDPE



PP



PS



OTHER

These recycling symbols can be found on most plastic items.

The number in the middle of the triangle tells us what type of plastic it is. It does not tell us whether it can be recycled or not.

These plastic products **do not belong** in your recycle bin



Plastic bags



Plastic food wrap



Foam or polystyrene



Toothpaste tubes

Soft plastic items which you can **scrunch in your hand** do not go into the recycle bin.

Soft plastics can jam the machinery in the recycling sorting process.



Muesli bar and lolly wrappers



Bread bags



Chip and pie packets



DID YOU KNOW?

Soft plastics can be taken to your major supermarkets for specialist recycling.



What goes in your recycle bin?



GLASS

Bottles and Jars

HANDY HINT

Bottle and jars don't need to be clean to be recycled. Just make sure most of the food contents are removed before placing in your recycle bin.



Glass containers can be re-used many times and recycled indefinitely. The energy saved by recycling a single bottle could light a 15-watt low energy light bulb for 24 hours!*

All these glass products **belong** in your recycle bin



Bottles and jars



Sauce and medicine bottles



HANDY HINT

All glass jars, lids and labels can be left on.

Drink bottles



*<https://recyclingweek.planetark.org/recycling-info>

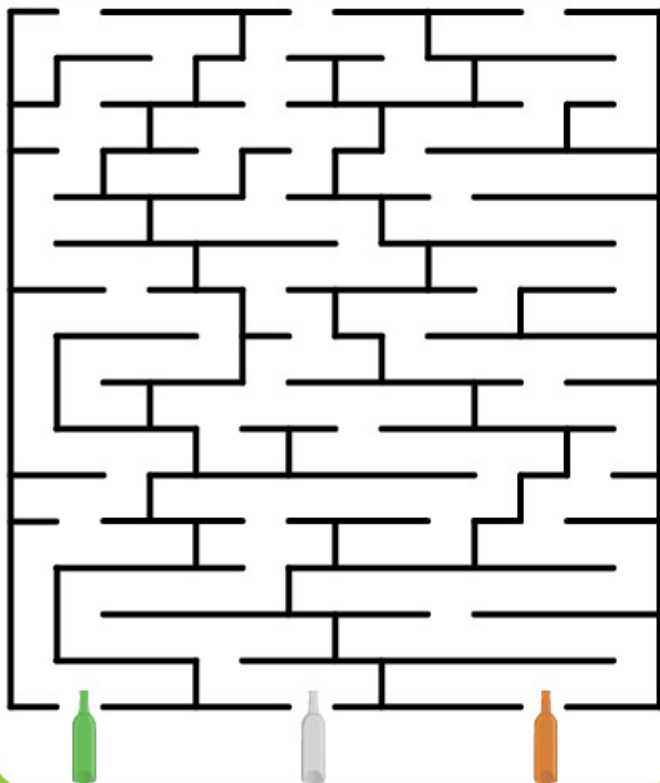
GLASS COLOURS MATTER

Only green, clear and amber glass is recycled

GREEN

CLEAR

AMBER



**DON'T
BAG YOUR
RECYCLABLES!**



Don't place your recyclables in plastic bags. Make sure they are placed into your recycle bin loose so they can be recycled.

TIP

Try your best to recycle your glass bottles and jars unbroken.

These glass products **do not belong** in your recycle bin



Drinking glass



Pyrex



Ceramic cups and bowls



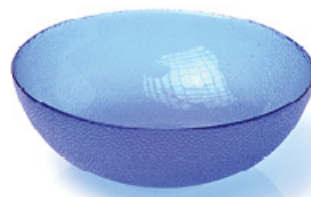
Light globes



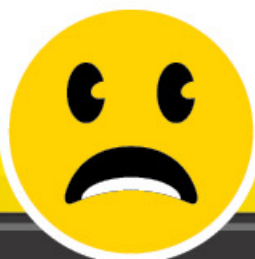
Cooking glassware



Mirror or window glass



Decorative glass



What goes in your recycle bin?



ALUMINIUM

Drink cans, spray cans,
trays and foil



Aluminium can be recycled over and over again.
Each can recycled, saves enough energy to run a TV for 3 hours.*

All these aluminium products **belong in your recycle bin**



Aluminium foil



Sardine cans



Aluminium trays



Aerosol spray cans



Drink cans



DID YOU KNOW?

All used foil can be recycled
just scrunch it into a loose ball
so the machines at the MRF
don't think it is paper.



What goes in your recycle bin?



STEEL

Food and spray cans

DID YOU KNOW?

You can leave the labels on your steel cans!



Steel is a very valuable resource. Making steel cans from recycled material uses 75% less energy than producing them from raw materials.*

All these steel products **belong** in your recycle bin



Food cans



Aerosol spray cans

AEROSOL CANS NEED TO BE EMPTY!

Make sure that there is no spray left in the can.



NO NEED TO RINSE OUT FOOD CANS!

Just ensure they are as empty as possible.



WHAT DOES NOT BELONG IN THE RECYCLE BIN?



NO RECYCLABLES IN PLASTIC BAGS

Place recycling loosely in your recycle bin



NO SOFT, SCRUNCHY PLASTIC BAGS AND FOOD WRAPPERS

Soft plastic items can be taken to dedicated collection bins at the supermarket for recycling



NO BATTERIES

Household batteries can be taken to a local transfer station for safe disposal



NO ELECTRICAL ITEMS

Electrical items can be safely disposed of at a local transfer station



NO GARDEN CLIPPINGS

Put all unwanted garden clippings in the food and garden organics bin



NO FOOD SCRAPS

Put all food and vegetable scraps in the compost bin



NO CLOTHING, SHOES OR FABRICS

Items that are still in good condition can be taken to your local charity store



NO POLYSTYRENE

See Council's A-Z guide* for disposal options of polystyrene



NO TOYS

If your old toys are still in good condition take them to your local charity store so other children can play with them



NO CERAMICS OR DRINKING GLASSES



NO TAKEAWAY CUPS



REMEMBER

No soft, scrunchy plastic bags and wrapping. Take soft plastics to your major supermarkets for specialist recycling.

*www.moreland.vic.gov.au/environment-bins/a-to-z-guide-to-waste-and-recycling/

TIPS ON REDUCING YOUR WASTE

There are many different ways to avoid sending waste to landfill. Here are some handy tips which we can use in our everyday lives to help protect the environment.

- ✓ Buy products made from recyclable packaging
- ✓ Buy products in bulk
- ✓ Make compost from food scraps
- ✓ Donate unwanted clothing, shoes or blankets
- ✓ Take your soft plastics to dedicated collection bins at major supermarkets so they can be recycled



DID YOU KNOW

Almost half of all rubbish bin contents is food waste – start composting and reduce waste to landfill.

THESE ITEMS GO INTO THE FOLLOWING BINS:

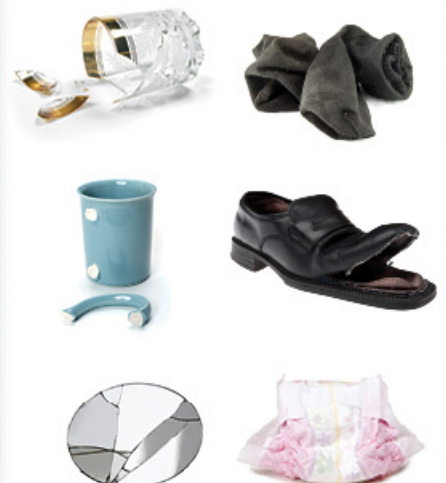
FOOD AND GARDEN ORGANICS BIN



COMPOST BIN



GARBAGE BIN



WHAT HAPPENS TO YOUR RECYCLING

STEP 1

COLLECT AND SORT

1



KERBSIDE PICK UP

At your home, a recycle truck picks up the recycle bin from outside your house and empties it into the truck.

2



MATERIAL COLLECTION

Material is delivered to a Visy Materials Recovery Facility where a front end loader pushes the material onto the conveyor belt.

3



MANUAL SORTING

The material travels along a conveyor belt, which passes by a number of manual sorters which remove any obvious contamination.

6



THE MAGNET

A magnet attracts the steel items such as food cans, and separates them from the rest of the material.

7



AIR CLASSIFIER

This machine projects a continuous blast of air that blows low density, light weight plastics, aluminium and paper up while the bottles fall downwards.

8



EDDY CURRENT

A process called Eddy Current, uses a magnet to eject aluminium such as soft drink cans, by repelling it off the conveyor belt down a chute.

STEP 2

RECYCLING PROCESS

Once the recyclables are separated, they are sent for recycling. Recyclables can be used to manufacture new packaging and other products.



PAPER REELS



PLASTIC PELLETS

STEP 3

MANUFACTURING PROCESS

New products can be manufactured using recyclables.

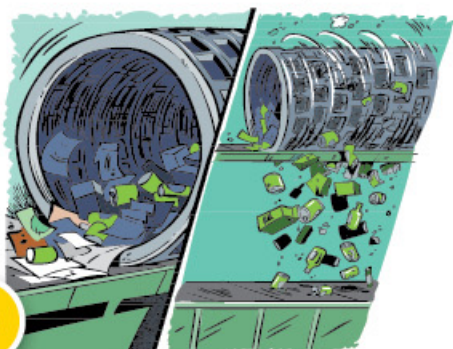


New paper and cardboard



New plastic bottles and containers

AFTER YOU PUT THE RECYCLE BIN OUT?*



4

THE TURNING TUNNEL

It enters a **trommel**, which is like the inside of a constantly turning washing machine with large holes so products such as plastics, glass and metals **drop down** to a lower conveyor belt, leaving paper and cardboard to travel through the trommel.



5

BOUNCING TRAMPOLINE

The paper passes over an **inclined conveyor belt** that vibrates. The heavy items bounce and fall back down the bouncing trampoline and the paper, which doesn't bounce makes it over the top.



9

THE PERFORATOR

The plastic containers continue their journey until they reach the perforator - which **punctures and flattens** plastic containers by using a series of spikes and spindles.



10

OPTI-SORT

After being flattened, the plastics travel through **infrared light** to detect the type of plastic and a **jet of air** transports the plastics into separate streams.



11

BALES

Each stream is **compressed and baled** into a large cube which is then distributed to Visy sites around Australia and sold overseas to be recycled into new products!



GLASS

GLASS CULLETT



ALUMINIUM

ALUMINIUM COILS



STEEL

STEEL COILS



New glass bottles and jars



New aluminium drink cans



New steel food containers

Visy takes your paper, cardboard and plastic recyclables and makes them into new products that contain recycled content. That's called 'closing the loop'.

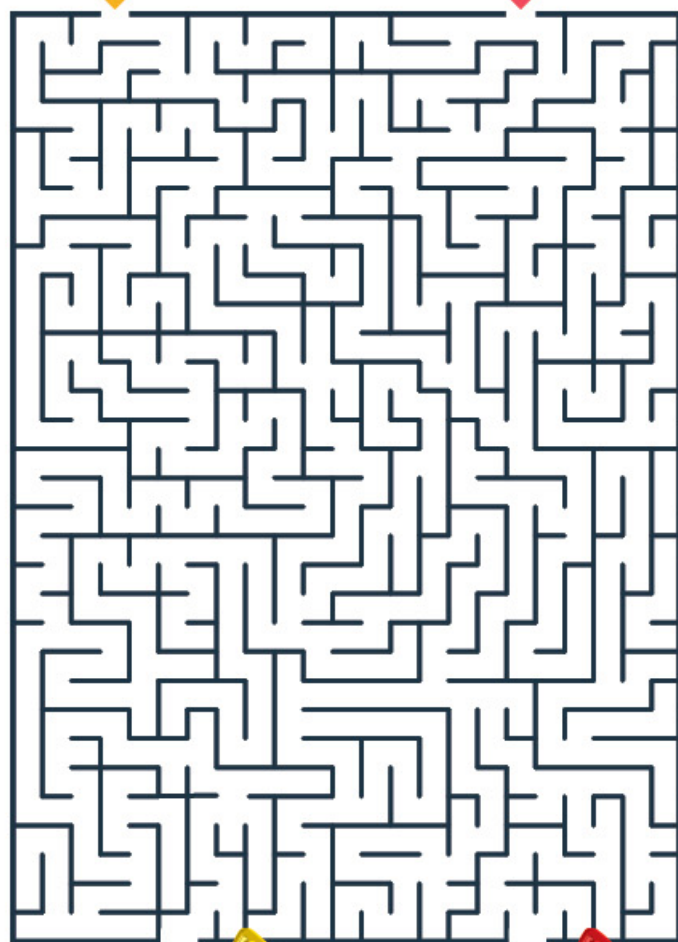
RECYCLING ACTIVITIES



It's time to
test what you
have learnt!

BIN IT RIGHT!

Which bin do these items belong in?



MEMORY TEST

Put a cross through the items below that
DO NOT belong in your recycle bin:



QUESTION TIME

1. Do plastic bottles and containers belong in the recycle bin?

☐ Yes ☐ No

2. Recyclables placed in plastic bags, when placed in your recycle bin, could end up in landfill?

☐ True ☐ False

3. Which of the following items should we **KEEP OUT** of our recycle bin?

- ☐ Plastic bags
☐ Polystyrene cups and trays
☐ Garden clippings
☐ All of the above

4. Lids and labels can be left on plastic bottles when placed into the recycle bin?

☐ True ☐ False

5. Aerosol cans must be empty before placing in the recycle bin?

☐ True ☐ False

6. Which of the following items belong in your rubbish bin?

- ☐ Plastic bottles
☐ Pizza boxes
☐ Plastic bags
☐ Aerosol cans
☐ Paper napkins



WORD FIND

Do you have a keen eye for finding words?

D	H	E	V	J	P	I	G	W	A	S	T	E	K	R
S	D	N	C	I	L	T	J	M	E	J	D	H	C	E
U	B	V	L	H	A	F	S	R	E	U	S	E	N	D
S	K	I	U	I	S	T	R	E	E	S	Y	L	B	U
T	E	R	N	B	T	G	K	C	X	N	R	C	P	C
A	A	O	P	T	I	U	E	Y	Q	E	E	A	A	E
I	L	N	F	G	C	S	F	C	E	W	Q	R	N	D
N	U	M	O	R	A	C	F	L	Z	S	D	T	G	M
A	M	E	G	N	T	A	P	E	W	P	F	O	L	Y
B	I	N	W	E	Z	N	J	V	O	A	P	N	A	C
L	N	T	O	L	R	S	W	P	A	P	E	R	S	T
E	I	Y	H	T	U	M	A	Q	W	E	V	I	S	Y
X	U	I	Q	T	S	Y	T	W	L	R	D	I	U	P
S	M	R	V	O	X	J	E	V	K	H	O	N	A	K
C	A	R	D	B	O	A	R	D	C	G	R	E	E	N

ENVIRONMENT
SUSTAINABLE
WATER
TREES
VISY
ENERGY
PAPER

BIN
PLASTIC
CANS
CARTON
REDUCE
CARDBOARD
BOTTLE

REUSE
RECYCLE
ALUMINIUM
GREEN
WASTE
NEWSPAPER
GLASS

DO YOU REMEMBER...?

What are these five recyclable materials made from?

- _____ is made from **trees**
- Plastics** are made from _____ **oil**
- _____ is made from **bauxite**
- Steel** is made from _____ **ore**
- _____ is made from **sand, limestone and soda ash**



LET'S ALL RECYCLE RIGHT!

Let's all recycle right by colouring in the items that do not belong in your recycle bin in **red**. You can then colour in the rest of the picture in whatever colours you like.



Moreland City Council

VISY
FOR A BETTER WORLD